SEQUENCE LISTING

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<110> Wakamiya, N.
<120> Novel Collectin
<130> 19036/37157
<150> JP HEI 10-237611
<151> 1998-08-24
<160> 32
<210> 1
<211> 2024
<212> DNA
<213> Homo Sapiens
<220>
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tctcataatg tggtcatcat gaacctcaac aacctgaacc tgacccaggt gcagcagagg
                                                                      120
aacctcatca cgaatctgca gcggtctgtg gatgacacaa gccaggctat ccagcgaatc
                                                                      180
                                                                      240
aagaacgact ttcaaaatct gcagcaggtt tttcttcaag ccaagaagga cacggattgg
ctgaaggaga aagtgcagag cttgcagacg ctggctgcca acaactctgc gttggccaaa
                                                                      300
gccaacaacg acaccetgga ggatatgaac agccagetca acteatteac aggtcagatg
                                                                      360
gagaacatca ccactatctc tcaagccaac gagcagaacc tgaaagacct gcaggactta
                                                                      420
cacaaagatg cagagaatag aacagccatc aagttcaacc aactggagga acgcttccag
                                                                      480
ctctttgaga cggatattgt gaacatcatt agcaatatca gttacacagc ccaccacctg
                                                                      540
cggacgctga ccagcaatct aaatgaagtc aggaccactt gcacagatac ccttaccaaa
                                                                      600
                                                                      660
cacacagatg atotgacotc ottgaataat accotggoca acatcogttt ggattotgtt
teteteagg atg caa caa gat ttg atg agg tcg agg tta gae act gaa gta
                                                                      711
          Met Gln Gln Asp Leu Met Arg Ser Arg Leu Asp Thr Glu Val
gcc aac tta tca gtg att atg gaa gaa atg aag cta gta gac tcc aag
                                                                      759
Ala Asn Leu Ser Val Ile Met Glu Glu Met Lys Leu Val Asp Ser Lys
                     20
                                          25
cat ggt cag ctc atc aag aat ttt aca ata cta caa ggt cca ccg ggc
                                                                      807
His Gly Gln Leu Ile Lys Asn Phe Thr Ile Leu Gln Gly Pro Pro Gly
                                      40
                                                          45
                 35
ccc agg ggt cca aga ggt gac aga gga tcc cag gga ccc cct ggc cca
                                                                      855
Pro Arg Gly Pro Arg Gly Asp Arg Gly Ser Gln Gly Pro Pro Gly Pro
act ggc aac aag gga cag aaa gga gag aag ggg gag cct gga cca cct
                                                                      903
Thr Gly Asn Lys Gly Gln Lys Gly Glu Lys Gly Glu Pro Gly Pro Pro
                             70
gge cet geg ggt gag aga gge cea att gga eea get ggt eee eee gga
                                                                      951
Gly Pro Ala Gly Glu Arg Gly Pro Ile Gly Pro Ala Gly Pro Pro Gly
                         85
                                              90
gag cgt ggc ggc aaa gga tct aaa ggc tcc cag ggc ccc aaa ggc tcc
                                                                      999
Glu Arg Gly Gly Lys Gly Ser Lys Gly Ser Gln Gly Pro Lys Gly Ser
95
                    100
                                         105
                                                              110
cgt ggt tcc cct ggg aag ccc ggc cct cag ggc ccc agt ggg gac cca
                                                                     1047
Arg Gly Ser Pro Gly Lys Pro Gly Pro Gln Gly Pro Ser Gly Asp Pro
                115
                                     120
                                                                     1095
gge eec eeg gge eea eea gge aaa gag gga etc eec gge eet eag gge
Gly Pro Pro Gly Pro Pro Gly Lys Glu Gly Leu Pro Gly Pro Gln Gly
            130
                                 135
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50

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cct cct ggc ttc cag gga ctt cag ggc acc gtt ggg gag cct ggg gtg
                                                                    1143
Pro Pro Gly Phe Gln Gly Leu Gln Gly Thr Val Gly Glu Pro Gly Val
                            150
        145
                                                 155
cct gga cct cgg gga ctg cca ggc ttg cct ggg gta cca ggc atg cca
                                                                    1191
Pro Gly Pro Arg Gly Leu Pro Gly Leu Pro Gly Val Pro Gly Met Pro
                                            170
                        165
                                                                    1239
ggc ccc aag ggc ccc ccc ggc cct cct ggc cca tca gga gcg gtg gtg
Gly Pro Lys Gly Pro Pro Gly Pro Pro Gly Pro Ser Gly Ala Val Val
                    180
                                        185
                                                                    1287
ccc ctg gcc ctg cag aat gag cca acc ccg gca ccg gag gac aat ggc
Pro Leu Ala Leu Gln Asn Glu Pro Thr Pro Ala Pro Glu Asp Asn Gly
tgc ccg cct cac tgg aag aac ttc aca gac aaa tgc tac tat ttt tca
                                                                    1335
Cys Pro Pro His Trp Lys Asn Phe Thr Asp Lys Cys Tyr Tyr Phe Ser
                                                     220
            210
                                215
gtt gag aaa gaa att ttt gag gat gca aag ctt ttc tgt gaa gac aag
                                                                    1383
Val Glu Lys Glu Ile Phe Glu Asp Ala Lys Leu Phe Cys Glu Asp Lys
       225
                            2-3-0
                                              - -2-3-5 - -
                                                                    1431
tct tca cat ctt gtt ttc ata aac act aga gag gaa cag caa tgg ata
Ser Ser His Leu Val Phe Ile Asn Thr Arg Glu Glu Gln Gln Trp Ile
                        245
                                            250
                                                                    1479
aaa aaa cag atg gta ggg aga gag agc cac tgg atc ggc ctc aca gac
Lys Lys Gln Met Val Gly Arg Glu Ser His Trp Ile Gly Leu Thr Asp
                    260
                                        265
tca gag cgt gaa aat gaa tgg aag tgg ctg gat ggg aca tct cca gac
                                                                    1527
Ser Glu Arg Glu Asn Glu Trp Lys Trp Leu Asp Gly Thr Ser Pro Asp
                275
                                    280
tac aaa aat tgg aaa gct gga cag ccg gat aac tgg ggt cat ggc cat
                                                                    1575
Tyr Lys Asn Trp Lys Ala Gly Gln Pro Asp Asn Trp Gly His Gly His
            290
                                295
                                                     300
ggg cca gga gac tgt gct ggg ttg att tat gct ggg cag tgg aac
                                                                    1623
Gly Pro Gly Glu Asp Cys Ala Gly Leu Ile Tyr Ala Gly Gln Trp Asn
                            310
gat ttc caa tgt gaa gac gtc aat aac ttc att tgc gaa aaa gac agg
                                                                    1671
Asp Phe Gln Cys Glu Asp Val Asn Asn Phe Ile Cys Glu Lys Asp Arg
                                            330
                        325
gag aca gta ctg tca tct gca tta taacggactg tgatgggatc acatgagcaa
                                                                    1725
Glu Thr Val Leu Ser Ser Ala Leu
                    340
attttcagct ctcaaaggca aaggacactc ctttctaatt gcatcacctt ctcatcagat
                                                                    1785
tgaaaaaaa aaaagcactg aaaaccaatt actgaaaaaa aattgacagc tagtgttttt
taccatccgt cattacccaa agacttggga actaaaatgt tccccagggt gatatgctga
                                                                    1965
ttttcattgt gcacatggac tgaatcacat agattctcct ccgtcagtaa ccgtgcgatt
atacaaatta tgtcttccaa agtatggaac actccaatca gaaaaaggtt atcatcccg
                                                                    2024
<210> 2
<211> 547
<212> PRT
<213> Homo Sapiens
<223> Deduced Amino Acid Sequence of Novel Collectin from Nucleotide
Sequence
Met Tyr Ser His Asn Val Val Ile Met Asn Leu Asn Asn Leu Asn Leu
                                      10
                                                          15
Thr Gln Val Gln Gln Arq Asn Leu Ile Thr Asn Leu Gln Arq Ser Val
             20
                                 25
                                                      30
Asp Asp Thr Ser Gln Ala Ile Gln Arg Ile Lys Asn Asp Phe Gln Asn
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35 40 45 Leu Gln Gln Val Phe Leu Gln Ala Lys Lys Asp Thr Asp Trp Leu Lys

60

55

Glu Lys Val Gln Ser Leu Gln Thr Leu Ala Ala Asn Asn Ser Ala Leu Ala Lys Ala Asn Asn Asp Thr Leu Glu Asp Met Asn Ser Gln Leu Asn 85 90 Ser Phe Thr Gly Gln Met Glu Asn Ile Thr Thr Ile Ser Gln Ala Asn 105 100 Glu Gln Asn Leu Lys Asp Leu Gln Asp Leu His Lys Asp Ala Glu Asn 120 125 Arg Thr Ala Ile Lys Phe Asn Gln Leu Glu Glu Arg Phe Gln Leu Phe 135 140 Glu Thr Asp Ile Val Asn Ile Ile Ser Asn Ile Ser Tyr Thr Ala His 155 150 His Leu Arg Thr Leu Thr Ser Asn Leu Asn Glu Val Arg Thr Thr Cys 165 170 Thr Asp Thr Leu Thr Lys His Thr Asp Asp Leu Thr Ser Leu Asn Asn 185 Thr Leu Ala Asn Ile Arg Leu Asp Ser Val Ser Leu Arg Met Gln Gln - - 200 - -195 2.0.5 Asp Leu Met Arg Ser Arg Leu Asp Thr Glu Val Ala Asn Leu Ser Val 215 220 Ile Met Glu Glu Met Lys Leu Val Asp Ser Lys His Gly Gln Leu Ile 235 230 Lys Asn Phe Thr Ile Leu Gln Gly Pro Pro Gly Pro Arg Gly Pro Arg 250 245 Gly Asp Arg Gly Ser Gln Gly Pro Pro Gly Pro Thr Gly Asn Lys Gly 265 260 Gln Lys Gly Glu Lys Gly Glu Pro Gly Pro Pro Gly Pro Ala Gly Glu 275 280 Arg Gly Pro Ile Gly Pro Ala Gly Pro Pro Gly Glu Arg Gly Gly Lys 295 300 Gly Ser Lys Gly Ser Gln Gly Pro Lys Gly Ser Arg Gly Ser Pro Gly 310 Lys Pro Gly Pro Gln Gly Pro Ser Gly Asp Pro Gly Pro Pro Gly Pro 325 330 335 Pro Gly Lys Glu Gly Leu Pro Gly Pro Gln Gly Pro Pro Gly Phe Gln 345 350 Gly Leu Gln Gly Thr Val Gly Glu Pro Gly Val Pro Gly Pro Arg Gly 360 365 Leu Pro Gly Leu Pro Gly Val Pro Gly Met Pro Gly Pro Lys Gly Pro 375 380 Pro Gly Pro Pro Gly Pro Ser Gly Ala Val Val Pro Leu Ala Leu Gln 390 395 Asn Glu Pro Thr Pro Ala Pro Glu Asp Asn Gly Cys Pro Pro His Trp 410 405 Lys Asn Phe Thr Asp Lys Cys Tyr Tyr Phe Ser Val Glu Lys Glu Ile 425 430 Phe Glu Asp Ala Lys Leu Phe Cys Glu Asp Lys Ser Ser His Leu Val 440 445 Phe Ile Asn Thr Arg Glu Glu Gln Gln Trp Ile Lys Lys Gln Met Val 455 460 Gly Arg Glu Ser His Trp Ile Gly Leu Thr Asp Ser Glu Arg Glu Asn 470 475 Glu Trp Lys Trp Leu Asp Gly Thr Ser Pro Asp Tyr Lys Asn Trp Lys 490 Ala Gly Gln Pro Asp Asn Trp Gly His Gly His Gly Pro Gly Glu Asp 500 505 Cys Ala Gly Leu Ile Tyr Ala Gly Gln Trp Asn Asp Phe Gln Cys Glu 520 525 Asp Val Asn Asn Phe Ile Cys Glu Lys Asp Arg Glu Thr Val Leu Ser 535 Ser Ala Leu 545

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<210> 3
<211> 27
<212> PRT
<213> Artificial Sequence
<223> Modified Consensus Sequence of collectins Hybridizable with Novel
Collectin
<400>3
Glu Lys Cys Val Glu Met Tyr Thr Asp Gly Lys Trp Asn Asp Arg Asn
                                      10
Cys Leu Gln Ser Arg Leu Ala Ile Cys Glu Phe
                                  25
             20
<210> 4
<211> 21
<212> DNA
<213> Artificial Sequence
<223> Sequence of a Reverse Primer for Screening a Novel Collectin.
<400> 4
caatctgatg agaaggtgat g
                                                                       21
<210> 5
<211> 21
<212> DNA
<213> Artificial Sequence
<223> Sequence of a Forward Primer for Screening a Novel Collectin.
<400> 5
                                                                       21
acgagggct ggatgggaca t
<210> 6
<211> 27
<212> PRT
<213> Artificial Sequence
<220>
<223> Consensus sequence of three collectins which were reported
heretofore
<400>6
Glu Asp Cys Val Leu Leu Lys Asn Gly Gln Trp Asn Asp Val Pro
                  5
                                     10
Cys Ser Thr Ser His Leu Ala Val Cys Glu Phe
             20
<210> 7
<211> 24
<213> Artificial Sequence
<223> M13 Universal Primer Sequence for Sequencing
<400> 7
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cgacgttgta aaacgacggc cagt
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<210> 8
<211> 17
<212> DNA
<213> Artificial Sequence
<223> M13 Reverse Primer Sequence for Sequencing.
<400> 8
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caggaaaca gctatgac
<210> 9
<211> 24
<212> DNA
<213> Artificial Sequence
<220>
<223> Sequence of a kambda gtH Reverse Primer for Sequencing.
<400> 9
                                                                       24
ttgacaccag accaactggt aatg
<210> 10
<211> 24
<212> DNA
<213> Artificial Sequence
<223> Sequence of a lambda gt11 Forward Primer for Sequencing.
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<211> 21
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<213> Artificial Sequence
<223> Sequence of a Primer for Screening a Novel Collectin
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cgtgaaaatg aatggaagtg g
                                                                        21
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<400>12
                                                                        21
ttttatccat tgctgttcct c
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<211> 21
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<223> Sequence of a Primer for Sequencing a Novel Collectin
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	<210> 14	
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	<210> 15	
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	<212> DNA	
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mag.	<220>	
	<223> Sequence of a 1RC2 Primer for Cap Site Sequencing	
== ~.[<400> 15	
Ţ	caaggtacgc cacagcgtat g	21
Ļį	<210> 16	
-1	<211> 20	
sh	<212> DNA	
Ų	<213> Artificial Sequence	
a	<220>	
	<223> Sequence of a Synthetic TGP1 Primer for Cap Site Sequencing	
)	<400> 16	
ed Per	tcttcagttt ccctaatccc	20
7		
_1.	<210> 17	
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	<223> Sequence of a 2RC2 Primer for Cap Site Sequencing	
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	<210> 19 <211> 22	
	<212> DNA	
	<213> Artificial Sequence	
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<210> 21 <211> 111 <212> DNA <213> Artificial Sequence	-
<220> <223> Sequence of a Probe for Screening a Novel Collectin	
<400> 21 gaagacaagt cttcacatct tgttttcata aacactagag aggaacagca atggataaaa aaacagatgg tagggagaga gagccactgg atcggcctca cagactcaga g	60 111
<210> 22 <211> 22 <212> DNA <213> Artificial Sequence	·
<220> <223> Sequence of a Forward Primer for Screening a Novel Collectin	
<400> 22 gtgcccctgg ccctgcagaa tg	22
<210> 23 <211> 26 <212> DNA <213> Artificial Sequence	
<220> <223> Sequence of a Reverse Primer for Screening a Novel Collectin	
<400> 23 gcatatcacc ctggggaaca ttttag	26
<210> 24 <211> 21 <212> DNA <213> Artificial Sequence	
<220> <223> Sequence of a Sense Primer for Screening Beta Actin	
<400> 24 caagagatgg ccacggctgc t	21
~210× 25	

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<211> 21
      <212> DNA
      <213> Artificial Sequence
      <223> Sequence of an Antisense Primer for Screening Beta Actin
      <400> 25
                                                                                 21
      tccttctgca tcctgtcggc a
      <210> 26
      <211> 39
      <212> DNA
      <213> Artificial Sequence
      <223> Sequence of a Sense Primer for Amplifying the Novel Collectin.
      <400> 26
                                                                                 39
      aaggaaaaaa gcggccgcat gcaacaagat ttgatgagg
<210> 27
ŧロ
      <211> 29
      <212> DNA
m
      <213> Artificial Sequence
115
÷__{ij}
į.
      <223> Sequence of a Reverse Primer for Amplifying the Novel Collectin
TL.
      <400> 27
      gctctagatt ataatgcaga tgacagtac
                                                                                 29
H.J. W. I., I., C. C. C.
      <210> 28
      <211> 21
      <212> DNA
      <213> Artificial Sequence
      <223> Sequence of a Sense Primer for Amplifying the Nockout Gene
      <400> 28
      atgcaacaag atttgatgag g
                                                                                 2.1
      <210> 29
      <211> 20
      <212> DNA
      <213> Artificial Sequence
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      <400> 29
                                                                                 20
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      <211> 248
      <212> PRT
      <213> Homo sapiens
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      <223> mannan-binding protein (MBP)
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Met Ser Leu Phe Pro Ser Leu Pro Leu Leu Leu Ser Met Val Ala Ala Ser Tyr Ser Glu Thr Val Thr Cys Glu Asp Ala Gln Lys Thr Cys Pro Ala Val Ile Ala Cys Ser Ser Pro Gly Ile Asn Gly Phe Pro Gly Lys Asp Gly Arg Asp Gly Thr Lys Gly Glu Lys Gly Glu Pro Gly Gln Gly Leu Arg Gly Leu Gln Gly Pro Pro Gly Lys Leu Gly Pro Pro Gly Asn Pro Gly Pro Ser Gly Ser Pro Gly Pro Lys-Gly-Gln Lys Gly Asp-Pro Gly Lys Ser Pro Asp Gly Asp Ser Ser Leu Ala Ala Ser Glu Arg 105 Lys Ala Leu Gln Thr Glu Met Ala Arg Ile Lys Lys Trp Leu Thr Phe 120 Ser Leu Gly Lys Gln Val Gly Asn Lys Phe Phe Leu Thr Asn Gly Glu Ile Met Thr Phe Glu Lys Val Lys Ala Leu Cys Val Lys Phe Gln Ala 150 155 Ser Val Ala Thr Pro Arg Asn Ala Ala Glu Asn Gly Ala Ile Gln Asn Leu Ile Lys Glu Glu Ala Phe Leu Gly Ile Thr Asp Glu Lys Thr Glu 185 Gly Gln Phe Val Asp Leu Thr Gly Asn Arg Leu Thr Tyr Thr Asn Trp 200 Asn Glu Gly Glu Pro Asn Asn Ala Gly Ser Asp Glu Asp Cys Val Leu Leu Leu Lys Asn Gly Gln Trp Asn Asp Val Pro Cys Ser Thr Ser His

245

Leu Ala Val Cys Glu Phe Pro Ile

230

<210> 31

<400> 30

<211> 248

<212> PRT <213> Homo sapiens

<220×

<223> surfactant protein A (SP-A)

<400> 31

Met Trp Leu Cys Pro Leu Ala Leu Thr Leu Ile Leu Met Ala Ala Ser 1 5 10 15

235

Gly Ala Ala Cys Glu Val Lys Asp Val Cys Val Gly Ser Pro Gly Ile Pro Gly Thr Pro Gly Ser His Gly Leu Pro Gly Arg Asp Gly Arg Asp Gly Val Lys Gly Asp Pro Gly Pro Pro Gly Pro Met Gly Pro Pro Gly Glu Thr Pro Cys Pro Pro Gly Asn Asn Gly Leu Pro Gly Ala Pro Gly Val Pro Gly Glu Arg Gly Glu Lys Gly Glu Pro Gly Glu Arg Gly Pro Pro Gly Leu Pro Ala His Leu Asp Glu Glu Leu Gln Ala Thr Leu His Asp Phe Arg His Gln Ile Leu Gln Thr Arg Gly Ala Leu Ser Leu Gln Gly Ser Ile Met Thr Val Gly Glu Lys Val Phe Ser Ser Asn Gly Gln 135 Ser Ile Thr Phe Asp Ala Ile Gln Glu Ala Cys Ala Arg Ala Gly Gly Arg Ile Ala Val Pro Arg Asn Pro Glu Glu Asn Glu Ala Ile Ala Ser 170 Phe Val Lys Lys Tyr Asn Thr Tyr Ala Tyr Val Gly Leu Thr Glu Gly Pro Ser Pro Gly Asp Phe Arg Tyr Ser Asp Gly Thr Pro Val Asn Tyr 200 Thr Asn Trp Tyr Arg Gly Glu Pro Ala Gly Arg Gly Lys Glu Gln Cys Val Glu Met Tyr Thr Asp Gly Gln Trp Asn Asp Arg Asn Cys Leu Tyr

<210> 32

<211> 375

<212> PRT

<213 > Homo sapiens

<220>

<223> surfactant protein D (SP-D)

Ser Arg Leu Thr Ile Cys Glu Phe 245

<400> 32

Met Leu Leu Phe Leu Leu Ser Ala Leu Val Leu Leu Thr Gln Pro Leu 1 5 10 15

Gly Tyr Leu Glu Ala Glu Met Lys Thr Tyr Ser His Arg Thr Thr Pro 20 25 30

Ser Ala Cys Thr Leu Val Met Cys Ser Ser Val Glu Ser Gly Leu Pro
35 40 45

Gly Arg Asp Gly Arg Gly Glu Gly Pro Arg Gly Glu Lys Gly Asp Pro Gly Leu Pro Gly Ala Ala Gly Gln Ala Gly Met Pro Gly Gln Ala Gly Pro Val Gly Pro Lys Gly Asp Asn Gly Ser Val Gly Glu Pro Gly Pro Lys Gly Asp Thr Gly Pro Ser Gly Pro Pro Gly Pro Pro Gly Val Pro Gly Pro Ala Gly Arg Glu Gly Pro Leu Gly Lys Gln Gly Asn 120 Ile Gly Pro Gln Gly Lys Pro Gly Pro Lys Gly Glu Ala Gly Pro Lys Gly Glu Val Gly Ala Pro Gly Met Gln Gly Ser Ala Gly Ala Arg Gly Leu Ala Gly Pro Lys Gly Glu Arg Gly Val Pro Gly Glu Arg Gly Val 170 Pro Gly Asn Ala Gly Ala Ala Gly Ser Ala Gly Ala Met Gly Pro Gln Gly Ser Pro Gly Ala Arg Gly Pro Pro Gly Leu Lys Gly Asp Lys Gly Ile Pro Gly Asp Lys Gly Ala Lys Gly Glu Ser Gly Leu Pro Asp Val 215 Ala Ser Leu Arg Gln Gln Val Glu Ala Leu Gln Gly Gln Val Gln His 235 Leu Gln Ala Ala Phe Ser Gln Tyr Lys Lys Val Glu Leu Phe Pro Asn Gly Gln Ser Val Gly Glu Lys Ile Phe Lys Thr Ala Gly Phe Val Lys 265 Pro Phe Thr Glu Ala Gln Leu Leu Cys Thr Gln Ala Gly Gly Gln Leu Ala Ser Pro Arg Ser Ala Ala Glu Asn Ala Ala Leu Gln Gln Leu Val 295 300 Val Ala Lys Asn Glu Ala Ala Phe Leu Ser Met Thr Asp Ser Lys Thr Glu Gly Lys Phe Thr Tyr Pro Thr Gly Glu Ser Leu Val Tyr Ser Asn Trp Ala Pro Gly Glu Pro Asn Asp Gly Gly Ser Glu Asp Cys Val 345 Glu Ile Phe Thr Asn Gly Lys Trp Asn Asp Arg Ala Cys Gly Glu Lys Arg Leu Val Val Cys Glu Phe